

Sheet 1 of 4

**Form PTO-1449 U.S. Department of Commerce
(Rev. 8-83) Patent and Trademark Office**

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.: 0756-1896 Serial No. 09/197,767

Applicants: Hisashi OHTANI, et al.

Filing Date: November 23, 1998

Group: 2814

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
PC	3,982,820	09/28/76	Hattori et al.			
PC	4,640,583	02/03/87	Hoshikawa et al.			
PC	4,796,979	01/10/89	Tsuboyama			
PC	4,911,958	03/27/90	Mochizaki et al.			
PC	4,932,757	06/12/90	Hanyu et al.			
PC	5,083,855	01/28/92	Clark et al.			
PC	5,117,299	05/26/92	Kondo et al.			
PC	5,132,676	07/21/92	Kimura et al.			
PC	5,189,540	02/23/93	Nakamura et al.			
PC	5,212,575	05/18/93	Kojima et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes	No
PC	6-40931	05/31/94	Japan			Abstract	
PC	2-503360	10/11/90	Japan			Abstract	
PC	9-211462	08/15/97	Japan			Abstract	
PC	7-13143	01/17/95	Japan			Abstract	
PC	6-331948	12/02/94	Japan			Abstract	
PC	6-347807	12/22/94	Japan			Abstract	
PC	6-337418	12/06/94	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

PC	A.D.L. Chandani, et al., "ANTIFERROELECTRIC CHIRAL SMECTIC PHASES RESPONSIBLE FOR THE TRISTABLE SWITCHING IN MHPOBC," Tokyo Inst. Of Tech., June 12, 1989, pp. 34-37.
PC	Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst., Overseas Publishers Association, Vol. 263, 1995, pp. 585-587.

Examiner PRAT A

Date Considered 6/15/01

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JUN 16 2000



Sheet 2 of 4

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U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
12	5,227,900	07/13/93	Inaba et al.			
12	5,240,801	08/31/93	Hayashi et al.			
12	5,305,126	04/19/94	Xobayashi et al.			
12	5,327,271	07/05/94	Takeuchi et al.			
12	5,330,616	07/19/94	Yamazaki			
12	5,332,521	07/26/94	Yuasa et al.			
12	5,339,306	08/16/94	Yoshinaga et al.			
12	5,412,494	05/02/95	Ishiwata et al.			
12	5,469,281	11/21/95	Katakura et al.			
12	5,473,449	12/05/95	Takemura et al.			

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	Document Number	Date	Country	Class	Subclass	Translation Yes	No
12	6-337405	12/06/94	Japan			Abstract	
12	6-301039	10/28/94	Japan			Abstract	
12	6-301015	10/28/94	Japan			Abstract	
12	6-289372	10/18/94	Japan			Abstract	
12	6-242409	09/02/94	Japan			Abstract	
12	6-214218	08/05/94	Japan			Abstract	
12	6-186533	07/08/94	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

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JUN 16 2000



Sheet 3 of 4

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Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
	5,389,287	02/14/95	Nishiyama et al.			
	5,739,882	04/14/98	Shimizu et al.			
	5,552,913	09/03/96	Shimizu et al.			
	5,638,194	06/10/97	Yamada et al.			
	5,473,450	12/05/95	Yamada et al.			
	5,541,747	07/30/96	Nishi et al.			
	5,354,497	10/11/94	Fukuchi et al.			
	5,270,846	12/14/93	Watanabe et al.			
	5,594,569	01/14/97	Konuma et al.			

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	Document Number	Date	Country	Class	Subclass	Translation Yes _____ No _____
	6-160824	06/07/94	Japan			Abstract
	6-160812	06/07/94	Japan			Abstract
	5-297364	11/12/93	Japan			Abstract
	5-045636	02/26/93	Japan			Abstract
	4-362918	12/15/92	Japan			Abstract
	4-243228	08/31/92	Japan			Abstract
	4-136814	05/11/92	Japan			Abstract

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

Examiner J. H. J. / A. C.

Date Considered 6/16/00

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Group Art Unit: 2814

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
ji	5,592,318	01/07/1997	Majima et al.			
ji	5,706,067	01/06/1998	Colgan et al.			
ji	5,739,890	04/14/1998	Uda et al.			
ji	5,767,827	06/16/1998	Kobayashi et al.			
ji	5,910,271	06/08/1999	Ohe et al.			
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ji	6,008,876	12/28/1999	Moore			
ji	6,049,132	04/11/2000	Iwahashi et al.			

Examiner jiDate Considered 1/13/01

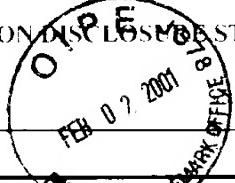
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	5,562,529	10/08/1996	Kishii et al.			
	5,567,300	10/22/1996	Datta et al.			
	5,575,706	11/19/1996	Tsai et al.			
	5,616,934	04/01/1997	Dennison et al.			
	5,658,806	08/19/1997	Lin et al.			
	5,807,165	09/15/1998	Uzoh et al.			

Examiner *J. HATANO*Date Considered *01/07/01*

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